## ISSUE SL! STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ינא פו ייט. | DATE     |  |  |  |  |  |
|---------------------------|----------|-------------|----------|--|--|--|--|--|
| FEE DETERMINATION         |          |             |          |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | 48          | 2/27/01  |  |  |  |  |  |
| FORMALITY REVIEW          | \$       | 922         | 08/25/01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | Tu.      | 407         | 10-23-0) |  |  |  |  |  |

## INDEX OF CLAIMS

| • | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| - 1 | Cla          | ılm İ    | Date       |  |          |          |          |  |          | Date Claim Date |               |           |          |          |          |              |          |           |          | $\neg$   | ſ        | Claim    |          |          |     |          |          | Date    |         |         |          |         |          |          |        |          |    |
|-----|--------------|----------|------------|--|----------|----------|----------|--|----------|-----------------|---------------|-----------|----------|----------|----------|--------------|----------|-----------|----------|----------|----------|----------|----------|----------|-----|----------|----------|---------|---------|---------|----------|---------|----------|----------|--------|----------|----|
|     |              | Ē        | 320        | Π  |          |          | П        |  |          |                 | П             | ٦.        |          | =        |          |              |          | $\neg$    | ╗        | $\neg$   |          |          |          | 7        | 1   |          | _        | Т       | Τ       | T       | Т        | Т       | T        |          |        | ╛        |    |
|     | =            | briginal | 20         |  |          |          |          |  |          | H               |               | ı         | 1=       | Original |          |              |          |           |          |          |          |          | - 1      |          | -   | ᆲ        | Original |         |         | 1       |          |         | ١.       |          |        |          |    |
|     | Final        | ŧ        | Œ          |  |          | 1        |          |  |          | li              |               |           | F        | 8        |          |              |          |           | - 1      |          |          | ŀ        | - 1      | - 1      | 1   | E        | ŧΙ       | 1       | ı       | 1       |          |         | 1        | 1        | Н      |          | ž, |
|     | 7            | 1        | ۶          | ╆  |          | 1        | 1-       | -                                      | -        | Н               | $\vdash$      |           | $\vdash$ | 51       | Н        |              |          | ┪         | ┪        |          |          | $\neg$   | ┪        | $\dashv$ | ı   |          | 101      | +       | t       | $\top$  | 十        | ✝       | t        | Н        | Н      | ᅥ        |    |
|     | Z            | N        | 1          | t  |          | H        | $\vdash$ | ┪                                      | т        | Н               | $\vdash$      |           |          | 52       | М        |              | -1       |           | -        | _        | _        | ┪        | 一        | ┪        | ı   |          | 102      | +       | t       | 十       | +        | +       | -        | -        | Н      | ┪        |    |
|     | 3            | 3        | +          | -  | -        | ┼        | 1        | ┢╾                                     | Н        | Н               | $\dashv$      | -         | $\vdash$ | 53       | Н        |              | $\dashv$ | ┪         | ┪        | _        | $\vdash$ | $\neg$   | $\dashv$ | _        | ŀ   |          | 103      | +       | t       | +       | +        | +-      | $\vdash$ | Н        | Н      | ᅥ        |    |
|     |              | 4        | H          | ⊢  | ⊢        | ⊢        | ⊢        | ⊢                                      | Н        | H               | $\dashv$      | $\dashv$  | -        | 54       | Н        |              |          |           | ⊣        |          |          | -        |          | $\dashv$ | !   |          | 104      | +       | ┿       | ┿       | ┿        | ┿       | ╁        | ₩        | Н      | $\dashv$ |    |
| )   | 45           | 5        | Н          | ├-   | ⊢        | ├-       | ├        | -                                      | -        | H-              | -+            | $\dashv$  | $\vdash$ | 55       | Н        | $\dashv$     | $\vdash$ | ┪         | $\dashv$ | -        |          | -        | $\dashv$ | $\dashv$ | ŀ   |          | 105      | ÷       | ╁       | ┿       | +        | +-      | ╌        | Н        | Н      | Н        |    |
|     | 6            | 6        | H          | ⊢  | ╌        | ⊢        | Н        | ⊢                                      | Н        | ⊢               | $\dashv$      | -         | $\vdash$ | 56       | $\vdash$ | -            | -        | $\dashv$  | -        | -        |          | -        | -        |          | ł   |          | 106      | ┿       | ╁       | +       | +        | +       | ╂        | -        | Н      | $\dashv$ |    |
| )   |              | 7        | H          | ⊢  | ┢        | ⊢        | ┝        | -                                      | -        | -               | $\dashv$      | -         | $\vdash$ | 57       | Н        | $\vdash$     | -        | -         | -        |          |          | $\dashv$ | $\dashv$ | $\dashv$ | ١   |          | 107      | ┿       | ┿       | +-      | +        | +-      | ╆        | ⊢        | Н      | $\dashv$ | ٠, |
|     | 7            | 8        | H          | ┝  | ├        | ⊢        | -        | ⊢                                      | -        | Н               | 2             |           | -        | 58       | -        | -            |          |           | -        | -        |          |          | $\dashv$ |          | ŀ   |          | 108      | +       | ╀       | +       | +        | ╁       | ╀╌       | ┥        | -      | $\dashv$ | ٠. |
| 1   | 6,           |          | ₽          | ⊢  | ╄        | ┝        | -        |  | -        | μ,              | -+            | -         | $\vdash$ | 59       | Н        | -            | -        | ┥         |          |          |          | -        | $\dashv$ | $\dashv$ | ļ   |          | 109      | +       | ╀       | ┿       | +-       | +       | ╀╌       | -        | Н      | $\dashv$ |    |
|     |              | 8        | 4          | ├-   | ⊢        | -        | $\vdash$ | _                                      | Н        | L               | -+            | -         | $\vdash$ | _        | Н        |              | $\vdash$ | -         |          | _        |          | _        | $\dashv$ | _        | I   | _        |          | +       | +       | +       | +        | +       | ┼-       | ١,       | Н      | $\dashv$ |    |
|     | 0            | 10       | IJ         | ╙  | ╙        | ┺        | <u> </u> | <u> </u>                               | L        | Щ               | _             | 4         | $\vdash$ | 60<br>61 | Н        |              | _        |           | -        | _        | _        | _        | $\dashv$ | -        | ١   |          | 110      | +       | +       | +       | +        | +       | ↓_       | <b>L</b> | Н      |          |    |
|     | 11 (         | Ξ        | 븨          | ┡  | ╙        | ┺        | L        | <u> </u>                               | ┖        | <u> </u>        | $\rightarrow$ | 4         | $\vdash$ |          | Н        | _            | _        | -         |          |          | _        | -        | _        | _        | ١   |          | 111      | +       | 4       | 4-      | +        | +       | ╀        | ١.,      | Н      | _        |    |
|     | 12           | 12       | Ц          | <del> </del>                                     | Ļ        | <b>⊢</b> | ┞        | L-                                     | _        | <u> </u>        | _             | _         | ⊢:       | 62       | Н        | $\Box$       | -        | _         | _        |          |          |          | _1       | -        | Ì   |          | 112      | +       | +       | +       | +        | +       | ╀        | -        | Ш      | _        |    |
|     | 14           |          | Ц          | ļ  | _        | ▙        | ļ        | <u> </u>                               | Ш        | Щ.              | $\sqcup$      | _         | <u> </u> | 63       | Ш        | Щ            | ļ.,      | _         | _        | _        | Ш        | Щ        | Ц        | _        | -   | _        | 113      | +       | 4       | 4       | <u>.</u> | +       | ↓_       | 1        | Ы      | _        |    |
|     | ٦            | 14       | Ц          | <u> </u>   | <b>L</b> | ــــ     | _        | L                                      | Ш        | Ŀ               | $\sqcup$      | _         | $\vdash$ | 64       | Ш        | Щ            | Щ        | _         | Щ        | _        | Ш        | Ш        | Ц        |          | ļ   |          | 114      | $\perp$ | 1       | 4       | 4        | 1       | 1        | 1        | Ш      | ᆜ        |    |
| )   | 16           | 怕        | 4          | ┖  | ┖        | ┖        | ┖        | 匚                                      | ┖        | _               | Ц             | _         | $\vdash$ | 65       | Ш        |              | Щ        | _         | Щ        | _        | Ш        | Ш        | Ц        | 4        | j   |          | 115      | $\perp$ | ╀       | 4       | $\bot$   | 4       | ┺        |          | Ц      | Ш        |    |
|     | 17           |          | Щ          | _  | ┖        | 1_       | L        | ╙                                      |          | Ш               | Щ             |           | L        | 66       | Ш        | Ш            | Ш        | l         |          |          | Ш        |          |          |          | 1   |          | 116      | 丄       | 1       | 丄       | 丄        | 1       | 1        | _        | Ш      | Ш        |    |
| )   | 18           | 17       | И          | L  | L        |          |          | L                                      | Ŀ        | L_              |               |           | L        | 67       |          |              |          | _         |          |          |          |          |          |          | - 1 |          | 117      | ┸       | l       | $\perp$ | 丄        | L       |          |          |        |          | ľ  |
|     | 15           | 18       |            |  |          |          |          |  |          |                 |               |           | L        | 68       |          |              |          |           |          |          |          |          |          | ]        | - 1 |          | 118      | L       |         |         |          | 1       |          |          |        |          |    |
|     | 20           | 19       | П          | Γ  | Γ        | Ī        | Γ.       | Γ                                      | Π.       | Ĺ               | П             | 7         | Г        | 69       |          |              |          |           |          |          |          |          |          |          |     |          | 119      |         | Т       | Т       | Т        | Т       | Т        | Π        | П      |          |    |
|     | 21           | 20       | П          |  | Г        |          |          | _                                      |          |                 |               |           |          | 70       | П        |              |          |           |          |          |          |          |          |          | 1   |          | 120      | T       | T       | 1       | $\top$   | Τ       | $\vdash$ |          | П      |          |    |
|     | 3            | 21       | ⇟          | t  | Н        | $\vdash$ | ╁╌       | ⊢                                      | $\vdash$ | Н               | $\vdash$      | ┥         | -        | 71       | -        |              | $\vdash$ |           | $\dashv$ | _        | Н        | -        | Н        | _        | ŀ   |          | 121      | +       | +       | +       | +        | +       | ╁        | +-       | -      | М        |    |
| -   | ۳            | 22       | ۴          | f-   |          | ╁        | -        | ╁                                      | ╁╌       | -               | -             | $\dashv$  | -        | 72       | Н        |              | $\dashv$ | -         | $\dashv$ |          | Н        |          | -        |          | ŀ   |          | 122      | ╅       | +       | +       | +        | ┿       | t÷       | +-       | Н      |          | 1  |
|     | $\vdash$     | 23       | ┝          | ╁  | -        | ╁╌       | +        | ⊢                                      | -        | Н               | $\vdash$      | -1        | $\vdash$ | 73       | Н        | -            | $\dashv$ | $\dashv$  | $\dashv$ | _        | Н        |          | $\vdash$ | _        | ŀ   |          | 123      | +       | ÷       | +       | +        | +-      | ١.       | +        | Н      | Н        |    |
|     | $\vdash$     | 24       | $\vdash$   | ⊢  | ⊢        | ⊢        | ⊢        | ⊢                                      | ⊢        | -               | $\vdash$      | $\dashv$  | -        | 74       | -        |              | Н        |           | -        | -        | Н        | -        | Н        | -        | ŀ   |          | 124      | +       | +       | ┿       | ┿        | +       | ╀        | +-       | -      | -        | ł  |
|     | $\vdash$     | 25       | ┝          | ╀  | ⊢        | ⊢        | ├        | ├                                      | ├        | -               | $\vdash$      | $\dashv$  | $\vdash$ | 75       | Н        | -            | $\vdash$ | -         | -        | _        | Н        | Н        | $\vdash$ |          | ł   | _        | 125      | +       | +       | +       | ┿        | ┿       | ⊢        | ₽        | Н      | Н        |    |
|     | $\vdash$     |          | ⊢          | ⊢  | ⊢        | ⊢        | ⊢        | ⊢                                      | ⊢        | $\vdash$        | $\vdash$      | -         | -        | 76       | Н        |              | Н        | $\dashv$  |          |          |          |          |          |          |     |          |          | +       | +       | +       | +        | ╫       | +-       | ļ.,      | Н      | نـــا    |    |
|     | Н            | 26       | ╙          | ┞-   | ├-       | -        | -        | ┞-                                     | Ι.,      | _               | -             |           | $\vdash$ |          | Н        | $\vdash$     | Н        | -         |          | _        | Н        | Щ        | Н        | _        | - 1 |          | 126      | +       | +       | +       | +        | +       | ╄        | 1        | Н      | ш        | ĺ  |
| ,   | Ш            | 27       | _          | ⊢  | ┡        | -        | <b>⊢</b> | ⊢                                      | ╙        | Н               | Н             | -∤        | $\vdash$ | 77       | Ь.       |              | Н        |           | _        | _        | ш        |          | $\dashv$ | _        | -   |          | 127      | ┿       | +       | 4       | +        | ╄       | 1        | ↓_       | -      | ш        | ĺ  |
| 1   | <u> </u>     | 28       | _          | <u> </u>   | ┡        | ┞        | ــــ     | <u> </u>                               | ↓_       | Ш               | $\sqcup$      | _         | L        | 78       | Ш        | Ш            |          | _         |          | _        | Щ        | Щ        | Ц        |          | ١   |          | 128      | 1       | ╀       | 4       | 4        | 4       | ┺        | ┺        | Ш      | ш        | ĺ  |
| 1   | 匚            | 29       |            | _  | <u> </u> | L        |          | L                                      | L        | Ш               | Ц             | _         | Ŀ        | 79       | Ш        |              | Ц        | _         |          | _        |          |          |          |          |     |          | 129      | 1       | ┸       | ┸       | 1        | 1       | L        | L        | L      | Ш        | ١. |
| İ   | <u>_</u>     | 30       | L          | ┖  | L        | Į_       | L        | 乚                                      | 乚        | Ш               | Ц             | _         | L        | 80       | Щ        |              | Щ        |           |          |          |          |          |          | _        | Į   |          | 130      | ┸       | ┸       | ┸       | Ŀ        | ┸       | L        | L        | L      | Ш        | 1  |
| ļ   |              | 31       |            | l  | · ·      | L        |          | L                                      |          |                 |               | _]        |          | 81       |          |              |          |           |          |          |          |          |          |          | ı   |          | 131      | ┸       | 1       | 1       |          |         |          | L        | L      |          | [  |
| ļ   |              | 32       |            | I  |          |          |          |  |          |                 |               |           | L        | 82       |          |              |          |           |          |          |          |          |          |          | -   |          | 132      | L       | I       |         |          |         |          |          |        |          | l  |
|     |              | 33       |            | Γ  | Г        | Г        | Г        |  | Г        |                 | П             | 7         |          | 83       |          |              |          |           |          |          |          |          |          |          |     |          | 133      | Т       | Τ       | 1       | Т        | Т       | Т        | Г        | П      | П        | l  |
|     |              | 34       |            | Г  | Π        | П        | Г        | П                                      | Г        | П               | П             | 7         |          | 84       |          |              |          |           |          |          |          |          |          |          |     |          | 134      | Т       | Τ       | T       | Т        | Т       | Т        | Г        |        | $\sqcap$ | l  |
|     |              | 35       |            | Г  | Π        | Т        | Г        |  | П        | Π               | П             | 7         |          | 85       |          |              | П        |           | -        |          |          |          |          |          |     |          | 135      | Т       | T       | T       | Т        | T       | Т        | 1.       | П      | П        |    |
|     | Г            | 36       | Г          | Т  | Π        | Г        | Г        |  | Г        | П               | $\Box$        | 7         |          | 86       |          | П            | П        |           |          |          |          |          |          | $\neg$   |     |          | 136      | $\top$  | T       | T       | T        | $\top$  | Τ.       | Т        | П      | П        | l  |
|     | Г            | 37       | Г          | 1  | $\vdash$ | 1        | ۴        | 1                                      |          | П               | $\sqcap$      | ヿ         |          | 87       | П        | П            | П        |           | П        |          | П        |          |          | $\neg$   |     | П        | 137      | 1       | Ť       | ╅       | ┪        | $\top$  | $\top$   | 1-       | П      | П        | l  |
|     | $\vdash$     | 38       | Г          | T  | ١.       | Т        | Т        | Г                                      |          | П               | Н             | $\dashv$  |          | 88       | П        | П            | П        | $\exists$ | П        |          | П        | П        | П        | $\dashv$ |     | $\dashv$ | 138      | 十       | Ť       | $^{+}$  | 十        | +       | T        | T        | П      | М        | l  |
|     | ⊢            | 39       | Н          | <del>                                     </del> | $\vdash$ | 1        | $\vdash$ | $t^{-}$                                | ✝        |                 | $\vdash$      | -         | $\vdash$ | 89       | Н        | Н            | Н        |           | $\vdash$ | -        | Н        | -        | Н        | $\neg$   |     |          | 139      | +       | Ť       | +       | ╅        | 十       | ✝        | †        | Н      | H        |    |
|     | <del> </del> | 40       | 1          | 1  | H        | +        | $\vdash$ | t                                      | $\vdash$ | Н               | H             | $\dashv$  | -        | 90       | -        | Н            | H        | $\vdash$  | $\vdash$ | —        | Н        | $\vdash$ | Н        | $\dashv$ |     |          | 140      | +       | $^{+}$  | +       | +        | +       | ٢        | 1        | Н      | Н        |    |
|     | $\vdash$     | 41       | -          | +  | ┼-       | ╁╌       | +-       | ╁┈                                     | $\vdash$ | ╁               | ┝┼            | $\dashv$  | $\vdash$ | 91       | Н        | Н            | Н        | $\vdash$  | Н        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\dashv$ | ļ   |          | 141      | +       | +       | +       | +        | +       | +-       | +-       | ┥      | Н        |    |
|     | -            |          | -          | +  | +        | +-       | +-       | Н—                                     | ├-       | ₩               | ⊢∔            |           | $\vdash$ | 92       | $\vdash$ | Н            | Н        | $\vdash$  | Н        | <u> </u> | $\vdash$ | Н        | Н        | $\dashv$ |     |          |          | +       | +       | +       | +        | +       | ₩.       | -        | Н      | Н        | l  |
|     | <b>—</b>     | 42       | $\vdash$   | ₩  | ⊢        | ⊢        | $\vdash$ | ₩                                      | $\vdash$ | $\vdash$        | $\sqcup$      | -1        | -        |          | <b> </b> |              | Ы        | Щ         |          | <u> </u> | Ш        | Ш        | Ш        | $\dashv$ | Ì   |          | 142      | 4       | +       | 4       | +        | +       | +        | ┡        | Н      | Ш        |    |
|     | -            | 43       | L.         | ֈ_   | ▙        | 1        | <u> </u> | ╙                                      | ↓_       | ш               | Н             | _         | $\vdash$ | 93       | <b>—</b> | Ш            | Н        |           | Ш        |          | $\vdash$ | Щ        | Н        |          |     |          | 143      | 4       | 4       | 4       | 4        | +       | ↓        |          | Ш      | Ш        |    |
|     | L            | 44       | Ľ          | 1  | 1_       | ┖        | 1        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | ╙        | L               | Ц             |           | $\vdash$ | 94       | <u> </u> | Ц            | Ш        | Ш         | Ш        | _        | ш        |          | Ш        | Ш        |     |          | 144      | 1       | 1       | ┸       | 4        | ┸       | ┺        | L        | Ш      | Ш        |    |
|     | ۶            |          | Ĺ          | L  | L        | L        |          | L                                      | L        |                 | $\square$     | _         | L        | 95       | _        |              | Ш        |           |          | _        |          |          | Ш        | Ш        |     |          | 145      | $\perp$ | $\perp$ | $\perp$ | $\perp$  | $\perp$ |          | L        | $\Box$ |          | ĺ  |
| 2   | ▙            | 46       | L          | L  | L        | L        | L        | L                                      | 乚        | L               | LI            |           |          | 96       | L        | $oxed{\Box}$ | $\Box$   |           |          |          | L        |          | L        | Ш        |     |          | 146      | $\perp$ |         | $\perp$ | ⅃        | L       | Ĺ        | L        |        |          |    |
|     | Ē.,          | 47       | [ <u> </u> | Г  | Γ        | Γ        |          |  |          | Γ               |               | 7         |          | 97       | L        |              | $\Box$   |           |          |          |          |          |          |          |     |          | 147      | T       | Ţ       | Ţ       | T        | Τ       | Г        | Γ        | П      |          |    |
|     |              | 48       | Γ          | Т  | T        | Т        | Γ        |  |          |                 | П             | $\exists$ |          | 98       | Г        |              | П        |           |          |          |          |          | П        |          |     |          | 148      | T       | Т       | T       | T        | Т       | Т        | 1        | П      | П        | ,  |
|     | Г            | 49       | Γ          | Т  | Г        | Т        | Т        | Г                                      | Г        | Г               | $\Box$        |           |          | 99       | П        | П            | П        | П         | П        |          |          | П        | П        | $\Box$   |     |          | 149      | 十       | 1       | $\top$  | +        | 1       | 1        | Т        | П      | П        |    |
|     |              |          |            | •  | •        | •        |          | -                                      |          |                 |               |           |          | 100      |          |              |          |           |          |          |          |          | _        | _        |     |          | 150      |         |         |         |          |         |          |          |        | _        |    |

75

If more than 150 claims or 10 actions staple additional sheet here